

## SECTION - B

### SHORT QUESTION

- Q-02: What are the contribution of Dr. Abdul Salam in the field of Physics?
- Q-03: Define the branches of Physics Kinematics and dynamics.
- Q-04: What is momentum? Define.
- Q-05: What is the relation between center of gravity and weight?
- Q-06: Differentiate between kinetic energy and potential energy.
- Q-07: Why it is dangerous to jump from a fast moving train? Explain.
- Q-08: A stone is thrown vertically upward with a velocity of  $20 \text{ ms}^{-1}$ . Find the maximum height reached by the stone and the total time of flight.
- Q-09: Drive the equation:  $PV = nRT$
- Q-10: Write the uses of radio-active isotopes.
- Q-11: Describe the simple camera with the help of diagram.
- Q-12: Explain why is more dangerous to burn steam than from boiling water although both are at the same temperature.
- Q-13: A string 2m long is used to whirl a 200 gm stone in horizontal circle at a speed of 2 m/s. Find the tension in string.